

ABSTRACT

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A hybrid drive apparatus comprises: an engine (1); a first electric motor (2) for generating an electric power by using at least a portion of its output and for controlling the speed of the engine 1 by motoring; and a control unit (U) for controlling the engine and the first electric motor. The control unit (U) performs a prepositioning control for positioning the engine being fuel-cut to a predetermined cranking start position such as a constant crank angle position or a constant cranking load position by the motoring of the first electric motor. As a result, the engine can always be started under identical conditions, and the torque vibrations to be outputted to a wheel have identical waveforms so that a simple torque correction can be made by outputting corresponding waveform data.

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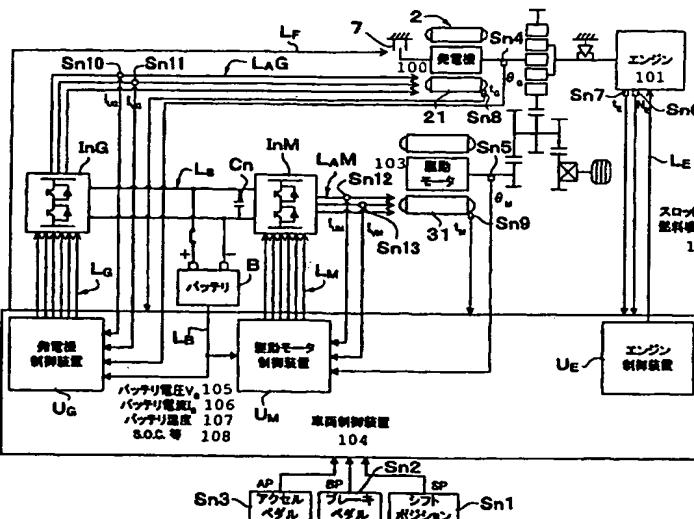
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(54)Title: DRIVE DEVICE

(54)発明の名称: 駆動装置



100...	GENERATOR
101...	ENGINE
102...	THROTTLE OPENING, FUEL INJECTION QUANTITY, ETC.
103...	DRIVE MOTOR
104...	VEHICLE CONTROLLER
105...	BATTERY VOLTAGE Vg
106...	BATTERY CURRENT Ib
107...	BATTERY TEMPERATURE Tb
108...	S.O.C. ETC.
B...	BATTERY
Sn1...	SHIFT POSITION
Sn2...	BRAKE PEDAL
Sn3...	ACCELERATOR PEDAL
Uc...	ENGINE CONTROLLER
Ug...	GENERATOR CONTROLLER
Um...	DRIVE MOTOR CONTROLLER

(57)Abstract: A hybrid drive device, comprising an engine (1), a first electric motor (2) generating a power using at least a part of the output of the engine (1) and controlling the speed of the engine (1) by motoring, and a controller (U) controlling the engine and the first-electric motor, wherein the controller (U) performs a pre-positioning control positioning the engine during fuel cutting at a specified cranking start position such as a fixed crank angle position and a fixed cranking load position by the motoring of the first electric motor, whereby, because the engine can be started always under the same conditions and a torque vibration output to wheels forms the same waveform, a simple torque compensation is allowed by outputting waveform data corresponding to the same waveform.

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